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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/791,527	03/03/2004	Dimitri Saey	1875.4880001	3355
	7590 04/01/201 SLER, GOLDSTEIN &	EXAMINER		
1100 NEW YORK AVENUE, N.W.			LEE, SIU M	
WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
		2611		
			MAIL DATE	DELIVERY MODE
			04/01/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

	Application No.	Applicant(s)		
10/791,527		SAEY, DIMITRI		
	Examiner	Art Unit		
	SIU M. LEE	2611		

	SIU M. LEE	2611						
The MAILING DATE of this communication appe	ars on the cover sheet with the o	orrespondence add	ress					
THE REPLY FILED 03 February 2010 FAILS TO PLACE THIS A	THE REPLY FILED 03 February 2010 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.							
 M The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Appe for Continued Examination (RCE) in compliance with 37 C periods: 	eplies: (1) an amendment, affidavi al (with appeal fee) in compliance	t, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request					
a) The period for reply expiresmonths from the mailing b) The period for reply expires on: (1) the mailing date of this Ac no event, however, will the statutory period for reply expire la Examiner Note: If box 1 is checked, check either box (a) or (t)	dvisory Action, or (2) the date set forth iter than SIX MONTHS from the mailing	date of the final rejection	n.					
MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f		FIRST REPLY WAS FIL	LED WITHIN TWO					
Extensions of time may be obtained under 37 CFR 1.136(a). The date to have been filled is the date for purposes of determining the period of a studied and of the control of the superior of the studied from: (1) the expiration date of the ster forth in (b) above, if checked. Any pely received by the Office are may reduce any earned patient term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	ension and the corresponding amount on nortened statutory period for reply origin	of the fee. The appropria nally set in the final Office	ate extension fee e action; or (2) as					
 The Notice of Appeal was filed on A brief in compl filling the Notice of Appeal (37 CFR 41.37(a)), or any exten Notice of Appeal has been filed, any reply must be filed with 	sion thereof (37 CFR 41.37(e)), to	avoid dismissal of the						
<u>AMENDMENTS</u>								
 The proposed amendment(s) filed after a final rejection, be They raise new issues that would require further con They raise the issue of new matter (see NOTE below 	sideration and/or search (see NOT v);	E below);						
 (c) They are not deemed to place the application in bett appeal; and/or 			ne issues for					
(d) ☐ They present additional claims without canceling a c NOTE: (See 37 CFR 1.116 and 41.33(a)).	orresponding number of finally reje	ected claims.						
4. The amendments are not in compliance with 37 CFR 1.12		mpliant Amendment (l	PTOL-324).					
5. Applicant's reply has overcome the following rejection(s):								
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 	owable if submitted in a separate, t	imely filed amendmer	it canceling the					
7. For purposes of appeal, the proposed amendment(s): a) [how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows:		be entered and an e	planation of					
Claim(s) allowed: Claim(s) objected to:								
Claim(s) rejected: 1-4, 7-11, 14-16, 19-23, 26, 28-31. Claim(s) withdrawn from consideration:								
AFFIDAVIT OR OTHER EVIDENCE								
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 	sufficient reasons why the affidavi	t or other evidence is	necessary and					
 The affidavit or other evidence filed after the date of filing a entered because the affidavit or other evidence failed to ov showing a good and sufficient reasons why it is necessary 	vercome <u>all</u> rejections under appea	l and/or appellant fail:	to provide a					
 The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER 	of the status of the claims after er	ntry is below or attach	ed.					
 The request for reconsideration has been considered but See Continuation Sheet. 	does NOT place the application in	condition for allowan	ce because:					
12. Note the attached Information <i>Disclosure Statement</i> (s). (i) 13. Other:	PTO/SB/08) Paper No(s).							
/CHIEH M FAN/ Supervisory Patent Examiner, Art Unit 2611								

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Continuation of 11, does NOT place the application in condition for allowance because: Applicant's argument:

Page 12, the applicant argues that Peeters does not explicitly disclose that a worse case SNR of the individual carriers in each carrier subset SUBSET1 through SUBSET8 is one of the parameters of this constellation information message as recited by independent claims 1, 8, 15, and 20.

Page 13, the applicant points out that Peeters merely provides how the number of bits for each carrier subset SUBSET1 through SUBSET8 is determined, Peeters does not disclose any relationship between the bit values for each carrier subset SUBSET8. If through SUBSET8, For example, no where does Peeters discloses that bit value B1 corresponding to SUBSET2 is different from bit value B2 corresponding to SUBSET2 as falseed in the Office Action.

Examiner's response:

Independent claims 1, 8, 15, and 20 all recite a similar limitation:

"a carriergrouping means configured to determine at least one dynamically variable size carrier group for the plurality of carriers based on the parameters and a plurality of carriergroup parameters for the at least one dynamically variable size carrier, one, at least one of the plurality of carriergroup parameters being a worst case parameter of the plurality of carriers within the at least one dynamically variable size carrier group."

The examiner rejected claims 1, 8, 15, and 20 under 35 USC 102(b) with Peeters (US 2001/0012783 A1). As there is no definition of what is the worst parameter, the examiner interprets "a worst case parameter of the plurality of carriers within the at least one dynamically variable size carrier group" as the bit allocation of the subset with the lowest bit allocation.

Figure 1 shows that the sub-carriers are divided into subsets and the sub-carriers in a subset carries the same number of bits, i.e. each sub-carrier in subset 1 as shown in figure 1 carries 2 bits, and each sub-carrier in subset 2 carries 4 bits (paragraph 0019). Paragraph 0021 discloses an embodiment that the carriers are grouped in subsets of carriers where the same amount of bits will be allocated to. It indicates that the number of bits within a subset is the same for all carriers. Therefore, it is inherently a subset will have the lowest bit allocation and the examiner interprets the lowest bit allocation and within the subsets as the worst case parameter.

Dependent claims 3, 10, 16, and 22 further define the worst case parameter as a worst case signal-to-noise ratio of the at least one dynamically variable size carrier group.

The examiner rejected claims 3, 10, 16, and 22 under 35 USC 103 based on Peeters (US 2001/0012783 A1).

Peeters does not disclose the worst case parameter comprises a worst case signal to noise ratio (SNR). However, it is well known in the art that bit allocation of a carrier is directly proportional to the signal to noise ratio of the carrier; that is, the carrier with higher signal to noise ratio can carry more bit (higher bit allocation).

Peeters discloses sending bit allocation for the subsets for setting up the far end modem and the examiner interpret the bit allocation of the owest bit allocated subset as the worst case parameter. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify Peeters invention to send a signal to noise ratio that is proportional to the bit allocation for the subsets to the far end modem and have the far end modem to calculate the bit allocation for the subset based on the received signal to noise ratio. In this case, the subset with the lowest bit allocation will send a lowest signal to noise ratio (worst case signal to noise ratio) to the far end modem. By send the signal to noise ratio to the far end modem. By card the signal to noise ratio to the far end modem. By card the signal to noise ratio to the far end modem.

Based on the above explanation, the examiner maintain the rejection of claims 1-4, 7-11, 14-16, 19-23, 26, and 28-31...